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TITLE : VEHICLE-MOUNTED LIGHT
 REFLECTOR AND SYSTEM FOR
 MEASURING DISTANCE BETWEEN
 VEHICLES

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a vehicle-mounted light reflector that can be easily improved in reflection efficiency for measurement light and can be fitted to an arbitrary site, and a system for measuring distance between vehicles using the vehicle-mounted light reflector.

SOLUTION: A light-sensitive resin is applied to a transparent resin substrate 4 capable of transmitting visible light, diffusion light, and parallel light are applied from the side of the surface for applying the light-sensitive resin and the side of the resin substrate 4, respectively, for sensitizing the light-sensitive resin, thus creating a hologram 6 on one surface of the resin substrate 4. The hologram 6 acts similarly as a concave mirror for measurement light for recursive reflection by performing the diffraction reflection of measurement light at an infrared wavelength region being applied from the side of the surface for forming the hologram. Visible light at a wavelength region other than the measurement light passes through a light reflector 2, thus preventing the visual field from being screened or vehicle design from being scarified.

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